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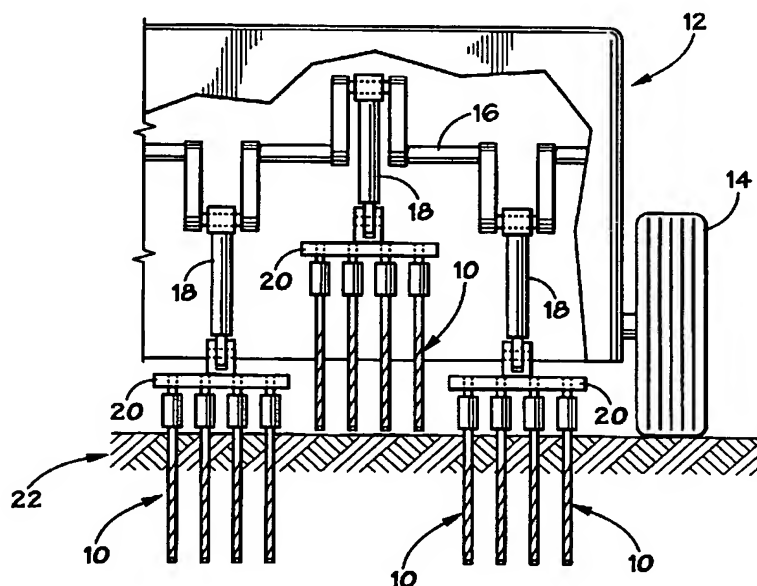
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR TURF AERIFICATION



(57) Abstract: A novel drill for the aerification of turf grasses is disclosed. The drill comprises a chuck and a fluted turf drill bit (10) held by the chuck. The chuck includes a locking mechanism which permits the chuck to rotate freely about its longitudinal axis when loaded in compression (as when the drill is inserted into the ground) but which locks, preventing rotation, when the drill is loaded in tension (such as when the drill is withdrawn from the soil). The drill bit (10) has a smooth upper section and a fluted lower section. The smooth section decreases the probability of entangling the turf in the drill bit (10) with subsequent lifting of the turf when the drill is withdrawn. The tip of the drill bit (10) is adapted to provide a torque to the drill bit (10) during insertion into the ground.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/05772

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01B 45/02

US CL : 172/21

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 172/21, 22, 42, 95, 97, 99

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,509,487 A (DUFFY et al.) 23 April 1996, figure 1.	1,2,21-24

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Continuation of Item 4 of the first sheet:
Title not precise.

New Title as follows:

METHOD AND APPARATUS FOR TURF AERATION